

PN - DE19908583 A 19990916  
 PD - 1999-09-16  
 PR - DE19991008583 19990227; DE19981009455 19980305  
 OPD - 1998-03-05  
 TI - Continuous determination of the UV transmission of running or flowing media, such as drinking water or purified sewage, for disinfection by UV irradiation  
 AB - The same UV radiation source (16) is used for both the measurement of the irradiation in the flowing medium (12) and in a reference space (20). A device for the continuous determination of the UV transmission of running or flowing media (12), such as drinking water or purified sewage, comprises: measuring and evaluating the irradiation of a UV radiation source (16) which irradiates an area of the medium; areas of identical UV irradiation of the emitting area of the UV radiation source extend into or adjoin both the flowing medium and a reference space (20); two UV sensors (22,24) are directed at the areas of identical UV irradiation; one UV sensor is positioned within the flowing medium and the other UV sensor is positioned in the reference space, they are both connected to a measuring and evaluation circuit (30) which compares and evaluates the signals of the UV sensors.  
 IN - WEDEKAMP HORST (DE)  
 PA - WEDECO UV VERFAHRENSTECHNIK GM (DE)  
 EC - G01N21/33 (N)  
 IC - G01N21/33 ; G01N21/59 ; G01J1/42 ; B01J19/12 ; C02F1/32  
 CT - \*\*\*\*\* Citations of C2-Document: \*\*\*\*\*  
 - DE3836850 A1 [ ]; GB2256043 A [ ]; US4775794 A [ ];  
 - US4336223 A [ ]; EP0059140 A1 [ ]

TI - Continuous determination of the UV transmission of running or flowing media, such as drinking water or purified sewage, for disinfection by UV irradiation  
 PR - DE19981009455 19980305  
 PN - DE19908583 C2 20021024 DW200272 G01N21/33 000pp  
 - GB2335033 A 19990908 DW199938 G01N21/33 015pp  
 - DE19908583 A1 19990916 DW199944 G01N21/33 000pp  
 - US6313468 B1 20011106 DW200170 G01N21/33 000pp  
 - GB2335033 B 20020612 DW200239 G01N21/33 000pp  
 PA - (WEDE-N) WEDECO UV-VERFAHRENSTECHNIK GMBH  
 - (WEDE-N) WEDECO WATER TECHNOLOGY AG  
 IC - B01J19/12 ;C02F1/32 ;G01J1/42 ;G01N21/33 ;G01N21/59 ;G01N21/64 ;G01N21/85 ;G01N33/18  
 IN - WEDEKAMP H  
 AB - GB2335033 NOVELTY - The same UV radiation source (16) is used for both the measurement of the irradiation in the flowing medium (12) and in a reference space (20).  
 - DETAILED DESCRIPTION - A device for the continuous determination of the UV transmission of running or flowing media (12), such as drinking water or purified sewage, comprises: measuring and evaluating the irradiation of a UV radiation source (16) which irradiates an area of the medium; areas of identical UV irradiation of the emitting area of the UV radiation source extend into or adjoin both the flowing medium and a reference space (20); two UV sensors (22,24) are directed at the areas of identical UV irradiation; one UV sensor is positioned within the flowing medium and the other UV sensor is positioned in the reference space, they are both connected to a measuring and evaluation circuit (30) which compares and evaluates the signals of the UV sensors.

- USE - Continuous determination of the UV transmission of running or flowing media, such as drinking water or purified sewage, for disinfection by UV irradiation.
- ADVANTAGE - Any measuring errors caused by aging, fluctuations in temperature and flow, or other factors which could affect the radiation performance of the UV radiation source are avoided by using the same UV radiation source for both the measurement of the irradiation in the flowing medium and in a reference space.
- DESCRIPTION OF DRAWING(S) - The drawing shows the device of the invention.
- Flowing medium 12
- UV radiation source 16
- Reference space 20
- UV sensors 22,24
- Evaluation circuit 30
- Cleaning device 32
- Strippers 34,36
- Linear drive 40
- (Dwg.1/2)

USAB - US6313468 NOVELTY - The same UV radiation source (16) is used for both the measurement of the irradiation in the flowing medium (12) and in a reference space (20).

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GBAB - GB2335033 NOVELTY - The same UV radiation source (16) is used for both the measurement of the irradiation in the flowing medium (12) and in a reference space (20).

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- USE - Continuous determination of the UV transmission of running or flowing media, such as drinking water or purified sewage, for disinfection by UV irradiation.
- ADVANTAGE - Any measuring errors caused by aging, fluctuations in temperature and flow, or other factors which could affect the radiation performance of the UV radiation source are avoided by using the same UV radiation source for both the measurement of the irradiation in the flowing medium and in a reference space.
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